

## List of publications

### Main scientific contributions by Carlo Doglioni with a number of co-authors:

- The recognition and description of Triassic tectonics and diapiric features in the Dolomites (1984, *Eclogae Geol. Helv.*);
- The analysis and unravelling of klippen in the Dolomites (1985, *Eclogae Geol. Helv.*).
- A model for sea-level changes due to Earth's axis oscillation (1990, *Nature*);
- The reconstruction of the structure and kinematics of the eastern Southern Alps (1992, *Eclogae Geol. Helv.*; 1992, *Thrust Tectonics*; 2008, *Memorie Carta Geol. d'Italia*) and the Central (2015, *Gondwana Research*) and Southern Apennines (2005, *Tectonics*);
- The geodynamic evolution of the Mediterranean region (1997; 1998; *Terra Nova*; 1999, *Bollettino Soc. Geol. Italiana*; 2005, *Encyclopedia of Geology*; 2012, *Tectonophysics*);
- The proposition and demonstration of the existence of a mainstream of plate motions, exemplified by the definition of the 'tectonic equator' (1990, *J. Geodynamics*; 1993; *Geological Soc. London*; 2007, *Geophysical J. Int.*; 2007, *Geol. Soc. America Sp. Publ.*);
- The interplay between tectonics and sedimentation as a function of the geodynamic setting (1997; 1998, *Marine and Petroleum Geology*);
- The 'westerly' polarization of the lithosphere relative to the underlying mantle;
- The asymmetry of subduction zones as a function of their geographic direction relative to the tectonic equator (1990, *J. Geodynamics*);
- The asymmetry of rift zones as a function of their geographic direction relative to the tectonic equator (2010, *Geology*; 2017, *Lithos*);
- The mantle depletion at rift zones and the uplift of Africa and Europe and (2003, 2009; *Tectonics*);
- The asymmetry of the regional monocline of the Alps and the Apennines as a function of the subduction polarity (2000, *Earth Planetary Sci. Letters*);
- The structural grain of the Apennines accretionary prism in the Ionian Sea (1999, *Earth Planetary Sci. Letters*);
- The subsidence of Venice generated by the Apennines subduction (2003, *Geophysical Research Letters*);
- The Mesozoic origin of the Ionian Sea (2001, *Geophysical J. International*);
- The structural difference of the orogens with respect to the westward drift of the lithosphere comparing Mediterranean (e.g., Alps and Apennines belts) and western versus eastern Pacific subduction zones (1999, 2012; *Earth Science Reviews*);
- The different origin of foredeep basins and trenches as a function of the subduction polarity (1993, *Tectonophysics*; 1994, *Geology*);
- The origin of W-directed subduction zones (1999, *Geol. Soc. London Sp.P.*);
- The computation of subduction rate worldwide with a new formula where convergence rate is partitioned into upper plate contraction and subduction rate being this value controlled by the versus and rate of the subduction hinge (2007, *Earth Science Reviews*; 2008, *Earth Planetary Sci. Letters*);
- The occurrence of a new mantle and a new forming Moho in the hangingwall of the W-directed subduction zones (1991, *Terra Nova*);
- The origin of the Apulian uplift in the foreland of the Southern Apennines (1994, *Tectonics*);
- An alternative interpretation of the California-San Andreas system geodynamics (1996, *Terra Nova*);
- The geodynamic origin of the Etna volcano along a transfer zone of the Apennines subduction (2001, *Terra nova*);
- The structure of the Eastern Balkans (1996, *Marine and Petroleum Geology*);
- The origin of the Aegean and western Anatolia rift and related magmatism (2002, *J. Virtual Explorer*; 2005, *Marine Geology*; 2010; *Tectonophysics*);
- The opposite migration of fault rupture and seismicity of thrusts versus normal faults (2004, *Earth Science Reviews*);
- The absence of relation of the subduction dip with age and convergence rate of the slab (2005, *Earth and Planetary Science Letters*);
- The El Salvador geodynamic and volcanic setting (2007, *G3*);
- The discovery and interpretation of carbonatites at the Vulture volcano (2007, *Lithos*);
- The existence of two coexisting rotations of single plates or subrotations (2008, *Tectonics*);

- The asymmetry and origin of mantle wedges at subduction zones (2007, *Lithos*);
- Structure and evolution of salients and recesses in accretionary prisms (2017, *J. Geophys. Res.*);
- The shallow origin of mantle plumes (2005; 2015, *Geol. Soc. America Sp. Publ.*);
- The sediment composition as a function of subduction polarity (2008, *J. of Geology*);
- The paleomagnetic signature of the Southern Alps (1993; 1994, *Tectonics*);
- The tidal tuning of plate tectonics and seismicity (2006, *Bulletin Geol. Soc. America*; 2010, *Tectonophysics*);
- The South Zagros structure (2015, *Gondwana Research*; 2017, *Tectonophysics*);
- The polarization and origin of plate tectonics (2015, *Advances in Geophysics*; 2017, *Scientific Reports*);
- The role of the brittle-ductile transition on fault activation (2011, *Physics of the Earth and Planetary Interiors*);
- The lower strain rate in areas of higher seismic hazard (2012, *Physics of the Earth and Planetary Interiors*);
- The energy distribution of seismicity across the globe (2012, *Tectonophysics*);
- The colonization of life of lands in the Cambrian (2016, *Geoscience Frontiers*);
- The gravitational energy of normal fault-related earthquakes or graviquakes (2011, *Physics of the Earth and Planetary Interiors*; 2015, *Scientific Reports*; 2015, *Tectonophysics*; 2017, *Scientific Reports*; 2019, *Scientific Reports*);
- The fluids behaviour as a function of the interseismic, preseismic and coseismic times (2014, *Geoscience Frontiers*; 2017, *Scientific Reports*);
- The longer duration of seismic sequences associated to graviquakes (2017, *Scientific Reports*);
- A classification of induced seismicity (2018, *Geoscience Frontiers*);
- The coseismic subsidence increasing masonry damages during earthquakes (2019, *Soil Dynamics and Earthquake Engineering*);
- The requirement of a dilated/fractured volume in the brittle crust during the interseismic period in order to allow the generation of normal fault earthquakes or graviquakes (2019, *Scientific Reports*);
- Unlike other thrust and strike-slip earthquakes, normal fault earthquakes are controlled by gravity and not elastic rebound (2019: 2020, *Annals of Geophysics*);
- The low frequency oscillation (>6 months) of the solid Earth's tides horizontal component is able to drag plates, i.e., providing a clue for triggering plate motions and mantle convection (2020, *Earth Science Reviews*).

## **Peer reviewed Publications**

### **2024**

- Zaccagnino D., Vallianatos F., Michas G., Telesca L., Doglioni C., 2024. Are foreshocks fore-shocks? *J. Geophys. Res.* 10.1029/2023JB027337, 1-17.
- Doglioni C., 2024. Gravitational and elastic energies stored in crustal volumes activate normal versus strike-slip and thrust seismogenic faults. *Geoscience Frontiers*, <https://doi.org/10.1016/j.gsf.2024.101894>
- Doglioni C., 2024. From the CNR to the birth of the National Institute of Geophysics and Volcanology: a virtuous pathway. *Accademia dei Lincei, Atti Convegno 100 anni del CNR*.
- Doglioni C., 2024. Impronte dei gradienti sulla Terra. *Prolusione Accademia delle Scienze di Torino*.
- Doglioni C., 2024. Conoscere la Terra per conoscere noi stessi. In: *La Scienza per la Pace Nuovi discepoli della conoscenza, Il metodo scientifico nel cambiamento d'epoca*, a cura di E. Bettini & D. Tondini, Università di Teramo, 31-39.
- Doglioni C., Savettieri C., 2024. Italia Fragile. In: *La Catastrofe dal Settecento all'Età contemporanea*.
- Ficini E., Cuffaro M., Doglioni C. and Gerya T. 2024. Variable plate kinematics promotes changes in back-arc deformation regime along the north-eastern Eurasia

- plate boundary. *Scientific Reports*, 14:7220, <https://doi.org/10.1038/s41598-024-57890-6>
- Supino M., Scognamiglio L., Chiaraluce L., Doglioni C., Herrero A., 2024. Source characterization of the 20th May 2024 Md 4.4 Campi Flegrei caldera earthquake through a joint source-propagation probabilistic inversion. *SEISMICA*, Report, doi:10.26443/seismica.v3i2.1394
- Visini F., Carafa M.M.C., Valentini A., Di Naccio D., Kastelic V., Doglioni C., 2024. Scenario-based seismic hazard for horizontal and vertical ground motions in central Italy. *Rendiconti Lincei. Scienze Fisiche e Naturali* <https://doi.org/10.1007/s12210-024-01256-7>
- 2023**
- Bordoni P., Gori S., Akinci A., Visini F., Sgobba S., Pacor F., Cara F., Pampanin S., Milana G., Doglioni C., 2023. A site-specific earthquake ground response analysis using a fault-based approach and nonlinear modeling: The Case Pente site (Sulmona, Italy). *Engineering Geology*, 106970, <https://doi.org/10.1016/j.enggeo.2022.106970>
- Doglioni C., 2023. Origin of Seismicity in Italy as a Clue for Seismic Hazard. In: Cimellaro, G.P. (eds) *Seismic Isolation, Energy Dissipation and Active Vibration Control of Structures. WCSI 2022. Lecture Notes in Civil Engineering*, vol 309. Springer, Cham. [https://doi.org/10.1007/978-3-031-21187-4\\_10](https://doi.org/10.1007/978-3-031-21187-4_10)
- Livani, M., Petracchini, L., Benetatos, C., Marzano, F., Billi, A., Carminati, E., Doglioni, C., Petricca, P., Maffucci, R., Codegone, G., Rocca, V., Verga, F., and Antoncecchi, I.: Subsurface geological and geophysical data from the Po Plain and the northern Adriatic Sea (north Italy), *Earth Syst. Sci. Data*, 15, 4261–4293, <https://doi.org/10.5194/essd-15-4261-2023>, 2023.
- Nesi V., Bruno O., Zaccagnino D., Mascia C., Doglioni C., 2023. Tidal drag and westward drift of the lithosphere. *Geoscience Frontiers*, <https://doi.org/10.1016/j.gsf.2023.101623>
- Zaccagnino, D., Doglioni, C., 2023. Fault dip vs shear stress gradient. *Geosystems and Geoenvironment*, <https://doi.org/10.1016/j.geogeo.2023.100211>
- Zaccagnino, D., Telesca, L., Doglioni, C., 2023. Global versus local clustering of seismicity: Implications with earthquake prediction. *Chaos, Solitons and Fractals*, 170 (2023) 113419, doi.org/10.1016/j.chaos.2023.113419
- Zaccagnino, D., Telesca, L., Tan, O., Doglioni, C., 2023. Clustering analysis of seismicity in the Anatolian region with implications for seismic hazard. *Entropy*, 25(6), 835, doi.org/10.3390/e25060835
- 2022**
- Carminati E., Doglioni C., 2022. Evidence for Triassic contractional tectonics in the northern Dolomites (Southern Alps, Italy). *Journal of Structural Geology*, 163, 104711, <https://doi.org/10.1016/j.jsg.2022.104711>
- Petricca, P., Carminati, E., Doglioni, C., 2022. Estimation of the maximum earthquakes magnitude based on potential brittle volume and strain rate: the Italy test case. *Tectonophysics*, <https://doi.org/10.1016/j.tecto.2022.229405>
- Scrocca D., Petracchini L., Arecco P., Cannata D., Recanati R., Bega Z., Doglioni C., Tari G., 2022. Rift-enhanced foredeep and tectonics interplay in the outer Albanides. *Marine and Petroleum Geology*, <https://doi.org/10.1016/j.marpetgeo.2022.105919>
- Zaccagnino D., Telesca L., Doglioni C., 2022. Correlation of seismic activity and tidal stress perturbations highlights growing instability within the brittle crust. *Scientific Reports*, 12:7109 | <https://doi.org/10.1038/s41598-022-11328-z>

- Zaccagnino D., Telesca L., Doglioni C., 2022. Variable seismic responsiveness to stress perturbations along subduction zones: the role of different slip modes and implications for the stability of fault segments. *Frontiers in Earth Sciences*, DOI 10.3389/feart.2022.989697
- Zaccagnino D., Telesca L., Doglioni C., 2022. Scaling properties of seismicity and faulting. *Earth and Planetary Science Letters*, 584, 15 April 2022, 117511, <https://doi.org/10.1016/j.epsl.2022.117511>
- Zaccagnino D., Doglioni C., 2022. Earth's gradients as the engine of plate tectonics and earthquakes. *La Rivista del Nuovo Cimento*, <https://doi.org/10.1007/s40766-022-00038-x>
- Zaccagnino D., Doglioni C., 2022. The impact of faulting complexity and type on earthquake rupture dynamics. *Communications Earth & Environment*, [www.nature.com/commsenv, https://doi.org/10.1038/s43247-022-00593-5](https://doi.org/10.1038/s43247-022-00593-5)

## 2021

- Albano, M., Barba S., Bignami C., Carminati E., Doglioni C., Moro M., Stramondo S., Saroli M. (2021) Three-dimensional numerical simulation of the interseismic and coseismic phases associated with the 6 April 2009, Mw 6.3 L'Aquila earthquake (Central Italy). *Tectonophysics*, 798, 228685, <https://doi.org/10.1016/j.tecto.2020.228685>
- Albano, M., Barba S., Bignami C., Carminati E., Doglioni C., Moro M., Saroli M., Samsonov S., Stramondo S., 2021. Numerical modeling of the seismic cycle for normal and reverse faulting earthquakes in Italy. *Geophysical Journal International*, 225, 627-645, <https://doi.org/10.1093/gji/ggaa608>
- Agostini, S., Di Giuseppe, P., Manetti, P., Doglioni, C., Conticelli, S., 2021. A heterogeneous subcontinental mantle under the African-Arabian plate boundary revealed by boron and radiogenic isotopes. *Scientific Reports*, 11:11230, [doi.org/10.1038/s41598-021-90275-7](https://doi.org/10.1038/s41598-021-90275-7)
- Al Shawa, O., Atzori, S., Doglioni, C., Liberatore, D., Sorrentino, L., Tertulliani, A., 2021. Coseismic vertical ground deformation vs. intensity measures: examples from the Apennines. *Engineering Geology*, 293, 106323, <https://doi.org/10.1016/j.enggeo.2021.106323>
- Bernoulli, D. and Doglioni, C., 2021. Geology without borders: A tribute to Albert W. Bally. *Marine and Petroleum Geology*, 134, 105340, <https://doi.org/10.1016/j.marpetgeo.2021.105340>
- Carminati E., Petricca P. and Doglioni C., 2021. Mediterranean tectonics. *Encyclopedia of Geology*, second edition, Elsevier, 408-419, 10.1016/B978-0-08-102908-4.00010-2
- Cardello G.L., Vico G., Consorti L., Sabbatino M., Carminati E., Doglioni C. 2021. Constraining the passive to active margin tectonics of the internal Central Apennines: insights from biostratigraphy, structural and seismic analysis. *Geosciences*, 11, 160. <https://doi.org/10.3390/geosciences11040160>
- Cicala, M., Festa, V., Sabato, L., Tropeano, M., Doglioni, C., 2021. Interference between Apennines and Hellenides foreland basins around the Apulian Swell (Italy and Greece). *Marine and Petroleum Geology*, 133, 105300, <https://doi.org/10.1016/j.marpetgeo.2021.105300>
- De Gori P., Giampiccolo E., Cocina O., Branca S., Doglioni C. & Chiarabba C., 2021. Re-pressurized magma at Mt. Etna, Italy, may feed eruptions for years. *Communications Earth & Environment*, 2:216, <https://doi.org/10.1038/s43247-021-00282-9>, [www.nature.com/commsenv](https://www.nature.com/commsenv)

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- Doglion C. 2021. Lo studio dei terremoti: un modo per prevenire il vuoto. Terremoti: rassegnazione? fatalismo? potremo prevederli? Intanto studiamoli e facciamo prevenzione. *Multiverso*, pp. 76-79.
- Petricca, P., Bignami, C., Doglion C., 2021. The epicentral fingerprint of earthquakes marks the activated volume. *Earth Science Reviews*, 218, 103667  
<https://www.sciencedirect.com/science/article/pii/S0012825221001689>
- Sgroi, T., Polonia, A., Beranzoli, L., Billi, A., Bosman, A., Costanza, A., Cuffaro, M., D'Anna, G., De Caro, M., Di Nezza, M., Fertitta, G., Frugoni, F., Gasperini, L., Monna, S., Montuori, C., Petracchini, L., Petricca, P., Pinzi, S., Ursino, A., Doglion, C. 2021. One year of seismicity recorded through Ocean Bottom Seismometers illuminates active tectonic structures in the Ionian Sea (Central Mediterranean). *Frontiers in Earth Sciences*, in press.
- Vangone, A., Doglion, C., 2021. Asymmetric Atlantic continental margins. *Geoscience Frontiers*, 12, 5, 101205, <https://doi.org/10.1016/j.gsf.2021.101205>
- Villani, F., Maraio, S., Bruno, P.P., Improta, L., Wood, K., Pucci, S., Civico, R., Sapia, V., De Martini, P.M., Brunori, C.A., Doglion, C., Pantosti, D., 2021. High-resolution seismic profiling in the hanging wall of the southern fault section ruptured during the 2016 Mw 6.5 central Italy earthquake. *Tectonics*, 40, e2021TC006786. <https://doi.org/10.1029/2021TC006786>
- Zaccagnino D., Telesca L., Doglion C., 2021. Different fault response to stress during the seismic cycle. *Applied Sciences*, 11, 9596, <https://doi.org/10.3390/app11209596>
- 2020**
- Aragon E., D'Eramo F., Cuffaro M., Doglion C., Ficini E., Pinotti L., Nacif S., Demartis M., Hernando I., Fuentes T., 2020. The westward lithospheric drift, its role on the subduction and transform zones surrounding Americas: Andean to Cordilleran orogenic types cyclicity. *Geoscience Frontiers*, 11, 4, 1219-1229, <https://doi.org/10.1016/j.gsf.2019.11.002>
- Barberio, M.D., Gori, F., Barbieri, M., Billi, A., Caracausi, A., De Luca, G., Franchini, S., Petitta, M., Doglion C., 2020. New observations in Central Italy of groundwater responses to the worldwide seismicity. *Scientific Reports*, 10, Article number: 17850, <https://doi.org/10.1038/s41598-020-74991-0>
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- Bignami C., Valerio E., Carminati E., Doglion C., Petricca P., Tizzani P., Lanari R., 2020. Are normal fault earthquakes due to elastic rebound or gravitational collapse? *Annals of Geophysics*, 63, 2, SE213, 2020, doi:10.4401/ag-8455
- Cardello L., Consorti L., Palladino D., Carminati E., Carlini M., Doglion C., 2020. Tectonically controlled carbonate-seated maar-diatreme volcanoes: the case of the Volsci Volcanic Field, central Italy. *Journal of Geodynamics*, 139, 101763, [10.1016/j.jog.2020.101763](https://doi.org/10.1016/j.jog.2020.101763)

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- Doglioni C., 2020. Struttura dell'Appennino meridionale e il contributo di Paolo Scandone. *Atti Accademia dei Lincei*, 335, L'eredità scientifica di Paolo Scandone, geologo, 335, 187-194.
- Doglioni C., 2020. Terra. Treccani, Enciclopedia Italiana, 10° appendice, 619-624.
- Ficini, E., Cuffaro, M. and Doglioni C. 2020. Asymmetric Dynamics at Subduction Zones Derived from Plate Kinematic Constraints. *Gondwana Research*, 78, 110-125, <https://doi:10.1016/j.gr.2019.07.013>
- Petitta M., Barberio M.D., Barbieri M., Billi A., Doglioni C., Passaretti S., Franchini S., 2020. Groundwater Monitoring in Regional Discharge Areas Selected as "Hydrosensitive" to Seismic Activity in Central Italy. *Advances in Natural Hazards and Hydrological Risks: Meeting the Challenge*. In: Fernandes F., Malheiro A., Chaminé H. (eds) *Advances in Natural Hazards and Hydrological Risks: Meeting the Challenge*. *Advances in Science, Technology & Innovation (IEREK Interdisciplinary Series for Sustainable Development)*. Springer, Cham, 21-25, [https://doi.org/10.1007/978-3-030-34397-2\\_5](https://doi.org/10.1007/978-3-030-34397-2_5)
- Pezzo, G., Petracchini, L., Devoti, R., Maffucci, R., Anderlini, L., Antoncicchi, I., Billi, A., Carminati, E., Ciccone, F., Cuffaro, M., Livani, M., Palano, M., Petricca, P., Pietrantonio, G., Riguzzi, F., Rossi, G., Sparacino, F. and Doglioni, C., 2020. Active fold-thrust belt to foreland transition in northern Adria, Italy, tracked by seismic reflection profiles and GPS offshore data. *Tectonics*, 39, e2020TC006425, 10.1029/2020TC006425
- Riguzzi F. and Doglioni C., 2020. Gravity and crustal dynamics in Italy. *Rendiconti Lincei. Scienze Fisiche e Naturali*, <https://doi.org/10.1007/s12210-020-00881-2>
- Stramondo, S., Caserta A., Fawzi D., Doglioni C., 2020. Il monitoraggio come strumento di conoscenza, prevenzione e resilienza. *Parco Archeologico del Colosseo, Monitoraggio e manutenzione delle aree archeologiche, Cambiamenti climatici, dissesto idrogeologico, degrado chimico-ambientale*. *Atti del Convegno Internazionale di Studi, Roma, Curia Iulia, 20-21 Marzo 2019*, pp 89-95.
- Trionfera B., Frepoli A., De Luca G., De Gori P., Doglioni C., 2020. The 2013-2018 Matese and Beneventano seismic sequences (Central- Southern Apennines): new constraints on the hypocentral depth determination. *Geosciences*, 10, 17, <https://doi.org/10.3390/geosciences10010017>
- Zaccagnino, D., Vespe, F. and Doglioni, C. 2020. Tidal modulation of plate motions. *Earth Science Reviews*, 205, 103179, <https://doi.org/10.1016/j.earscirev.2020.103179>
- 2019**
- D'Alessandro, Costanzo, A., Ladina, C., Buongiorno, F., Cattaneo, M., Falcone, S., La Piana, C., Marzorati, S., Scudero, S., Vitale, G., Stramondo, S., Doglioni, C., 2019. Urban seismic networks, structural health and cultural heritage monitoring: the National Earthquakes Observatory (INGV, Italy) experience. *Frontiers in Built Environment*, 5, Article 127, 10.3389/fbuil.2019.00127
- Petricca P., Carminati E. and Doglioni C., 2019. The Decollement Depth of Active Thrust Faults in Italy: Implications on Potential Earthquake Magnitude. *Tectonics*, 38. <https://doi.org/10.1029/2019TC005641>
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- Bignami C., Valerio E., Carminati E., Dogliani C., Tizzani P. 2019. Volume unbalance on the 2016 Amatrice - Norcia (central Italy) seismic sequence and insights on normal fault earthquake mechanism. Scientific Reports, 9:4250 | <https://doi.org/10.1038/s41598-019-40958-z>
- Cuffaro, M., Billi, A., Bigi, S., Bosman, A., Caruso, C.G., Conti, A., Corbo, A., Costanza, A., D'Anna, G., Dogliani, C., Fertitta, G., Gasperini, L., Italiano, F., Lazzaro, G., Ligi, M., Longo, M., Martorelli, E., Petracchini, L., Petricca, P., Polonia, A., and Sgroi, T., 2019. The Bortoluzzi Mud Volcano (Ionian Sea, Italy) and its potential for tracking the seismic cycle of active faults. Solid Earth, 10, 741–763, <https://doi.org/10.5194/se-10-741-2019>
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- 2018**
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- Petricca, P., Carminati, E., Dogliani, C. and Riguzzi, F., 2018. Brittle-ductile transition depth versus convergence rate: impact on seismicity. Physics of the Earth and Planetary Interior, doi.org/10.1016/j.pepi.2018.09.002
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Nucleare, in Italia non è la sismicità il problema. È la prevenzione che ci difende dai terremoti <https://beemagazine.it/nucleare-in-italia-non-e-la-sismicita-il-problema-e-la-prevenzione-che-ci-difende-dai-terremoti/>

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